

## **Session Program**

**15-18 Mar 2021**



# **International Workshop on Future Linear Colliders, LCWS2021**

## ***PD3: Physics Analyses***

Zoom, Online Conference

## Tuesday 16 March

06:00

### PD3: Physics Analyses

**Session** | **Location:** Zoom, Online Conference | **Conveners:**  
Christopher Thomas Potter, Aleksander Filip Zarnecki, Roman Poeschl, Akimasa Ishikawa

06:00–06:20 **SiD Analyses for Snowmass Physics Lols: Status and Plans**

**Speaker**  
Christopher Thomas Potter

06:20–06:40

**Di-Higgs production in e+e- Collisions and Measurement of the Higgs Self-Coupling**

**Speaker**  
Peter Onyisi

06:40–07:00 **Study of HyZ coupling using e+e- -> γ H at the ILC**

**Speaker**  
Yumi Aoki

07:00–07:20 **Measurement of  $\sigma(e+e- \rightarrow HZ) \times \text{Br}(H \rightarrow ZZ^*)$  at the 250 GeV ILC**

**Speaker**  
Evgeny Antonov

07:20–07:40

**Potential of the Compact Linear Collider (CLIC) to measure branching fraction of the Higgs to ZZ\* decays 350 GeV and 3 TeV center-of-mass energy**

**Speaker**  
Ms Natasa Vukasinovic

07:40–08:00

**Measurement of the Higgs to di-photon branching fraction at 3 TeV CLIC**

**Speaker**  
Goran Kacarevic

08:00

11:00

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11:00–11:20

**Search for the pair-production of charged IDM scalars at high energy CLIC**

**Speaker**  
Jan Franciszek Klamka

11:20–11:40 **Stau Searches at the ILC**

**Speaker**  
Dr Maria Teresa Nunez Pardo de Vera

11:40–12:00 **A combined fit to the Higgs Branching Ratios at ILD**

**Speaker**

Jonas Kunath

12:00–12:20

**Optimising top-quark threshold scan at  $e^+e^-$  colliders using genetic algorithm**

**Speaker**

Kacper Nowak

12:20–12:40

**Photon-Photon Processes at the ILC and BSM signatures with small mass differences**

**Speaker**

Swathi Sasikumar

12:40

## Wednesday 17 March

09:00

### PD3: Physics Analyses

**Session** | **Location:** Zoom, Online Conference | **Conveners:**

Roman Poeschl, Christopher Thomas Potter, Akimasa Ishikawa, Aleksander Filip Zarnecki

09:00–09:30

#### Impact of the HL-LHC detector upgrades on the physics program

**Speaker**

Susanne Kuehn

09:30–10:00

#### Measurements of rare SM processes at LHC

**Speaker**

Xunwu Zuo

10:00–10:20

#### Prospects of measuring the branching fraction of the Higgs boson decaying into muon pairs at the ILC

**Speaker**

Dr Shin-ichi Kawada

10:20–10:40

#### Heavy quark production in high energy electron positron collisions at ILC250

**Speaker**

Adrian Irlles

10:40